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DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Minerals Inspection Report

Reviewed PPM3

Report Date: **11/18/2013**

Mine Name: Asphalt Ridge	Permit Number:	M/047/0032	Mine Status:	Inactive
Operator Name: Tar Sands Holdings II, LLC	Inspection Date:	11/18/2013	Permit Fees:	Delinquent
Inspector(s): April Abate	Inspection Time:	2:00 PM	Bond Amount:	$302,000
Attendee(s): Rick and Annette from Asphalt Ridge	Weather:	Clear, 55 F	Bond Escalation:	Due
Inspection Purpose: Routine inspection			Prior Inspection:	05/18/2011

Conclusions and Recommendations

Drainage issues were identified during the inspection require corrections. These corrections outlined in this report need to be undertaken prior to the permit package being approved.

	Elements of Inspection	Evaluated & Commented	Enforcement
1.	*Permits, Revisions, Transfer, Bonds*	☒	☐
	It does not appear that the Division is in receipt of the 2013 $500 annual permit fee.		
2.	*Public Safety (shafts, adits, trash, signs, highwalls)*	☒	☐
	A rather large seep was identified on the east facing highwall. Two monitoring wells were identified near the sediment ponds.		
3.	*Protection of Drainages/Erosion Control*	☒	☐
	Several drainage issues were identified at the site. A seep identified on the west highwall was observed generating a large pool of standing water on the haul road at the base of the pit. Two smaller seeps were identified on the north side of the pit on south facing slopes near the base. At one of the seeps, flowing water was observed. This seep has been labeled on the plan maps. Yellow and red staining was observed from both seeps. Drainage problems were identified at the base of the seeps. Water was not draining properly to the groundwater collection area (near MW-2) leaving a blocked off canal of standing water. Two storm water ponds and MW-1 and MW-2 were located during the inspection. Personnel at the mine were not aware of the last time the monitoring wells were sampled. Drainage from the haul road was flowing down a dirt road that leads to the southeast property gate. Erosion rills were noted along this dirt road and a large splay of sediment was dumped at the bottom of a low spot depression (this depression) did not appear to be one of the designated sediment ponds. Discussed with mine personnel adding berms along the road to prevent sediment from eroding into this area.		
4.	*Deleterious Material*	☐	☐
5.	*Roads (maintenance, surfacing, dust control, safety)*	☐	☐
6.	*Reclamation*	☐	☐
7.	*Backfilling/Grading (trenches, pits, roads, highwalls, shafts)*	☒	☐
	The seep noted on the highwall was fairly large in size. It would be prudent to have a geotechnical engineer evaluate it for stability to ensure that no failures occur.		
8.	*Soils*	☐	☐
9.	*Revegetation*	☐	☐
10.	*Other*	☐	☐

Inspector's Signature: _____

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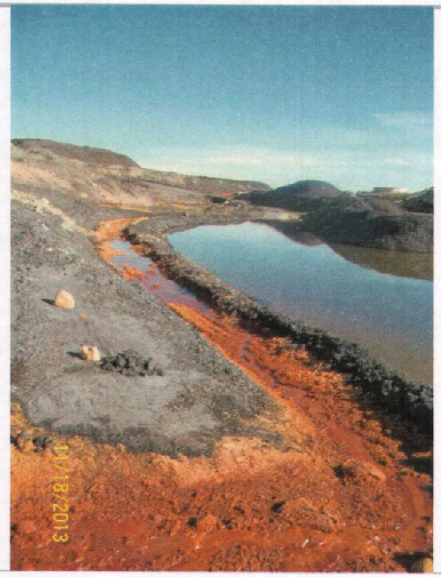
File: /nrwogmfs1/OGM/GROUPS/MINERALS/WP/M047-Uintah/M0470032-Crown-AsphaltRidge/inspections/11182013.pdf

View of the high wall looking south.

View of the high wall facing southwest. A seep originates (below the sun) to the right of the photo. Standing water from the seep is seen on the haul road.

A small seep was noted on the north high wall of the pit.

A second seep from the north highwall was noted showing significant iron staining. This seep is labeled on the mine plan maps.



Water flowing from the seep along the north high wall was forming a canal and not draining properly to the impoundment

A sediment pond was noted adjacent to monitoring well MW-2.

A second sediment pond was noted south of the first impoundment and connected by a culvert running under the haul road.

This area represents the boundary between the haul road and the access gate into the property. A large splay of sediment was noted due to unbermed areas.


Small Seep
Flowing Seep
Highwall Seep
Seep collection area
Pool of standing water
MW-2
Area of Erosion
MW-1
Storm water pond
W 1500 S
W 1700 S
W 1800 S
W 1750
bing
Image courtesy of USGS State of Michigan © 2013 Nokia © AND

Monitoring well MW-2

An area of heavy erosion was noted in the southeast corner of the site. No berms were in place to control sediment from migrating into this depression.

View east of the residential neighborhood directly below the mine.